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## FLEMING COUNTY

### (Fleming County Water Service Area Map)

- Estimated 1999 population of 13,300--80% on public water
- Estimated 2020 population of 14,400--81% on public water
- 435 miles of water lines, with plans for 14 additional miles
- Estimated funding needs for public water 2000-2005: \$548,000
- Estimated funding needs for public water 2006-2020: \$0

Fleming County had an estimated population of 13,289 (5,475 households) in 1999 with a projected population of 14,411 (6,404 households) in 2020. Public water is provided to about 80 percent of the county's residents. In areas of the county not served by public water, about half the households rely on private domestic wells and half of the households rely on hauled water, cisterns and other sources. About 70 customers will be added to public water service through new line extensions in 2000-2020.

### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
<b>FLEMING</b>								-
Fleming W/D	Current	project	funded					-
Western Fleming W/D	13.7	69	548					548
<b>FLEMING TOTAL</b>	<b>13.7</b>	<b>69</b>	<b>548</b>					<b>548</b>

## PUBLIC WATER SYSTEMS

Three water systems, Fleming County Water Association, Western Fleming Water District and the City of Flemingsburg serve Fleming County. A newly created entity, the Greater Fleming County Regional Water Commission, also exists and was formed for the sole purpose of creating a new regional water supply. A few residents in the county may also be served by Bath County Water District, Buffalo Trail Water District, Rowan County Water District, Sharpsburg Water District, Southern Mason Water District, and Western Lewis Rectorville Water District.

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# WATER SERVICE AREAS

## FLEMING COUNTY

### Kentucky

*Prepared By:*  
**Water Resource Development Commission**

Department for Local Government  
1024 Capital Center Drive, Suite 340  
Frankfort, Kentucky 40601-8204  
502-573-2382 -- 502-573-2939 fax  
<http://dlgnt1.state.ky.us/wrdc/>

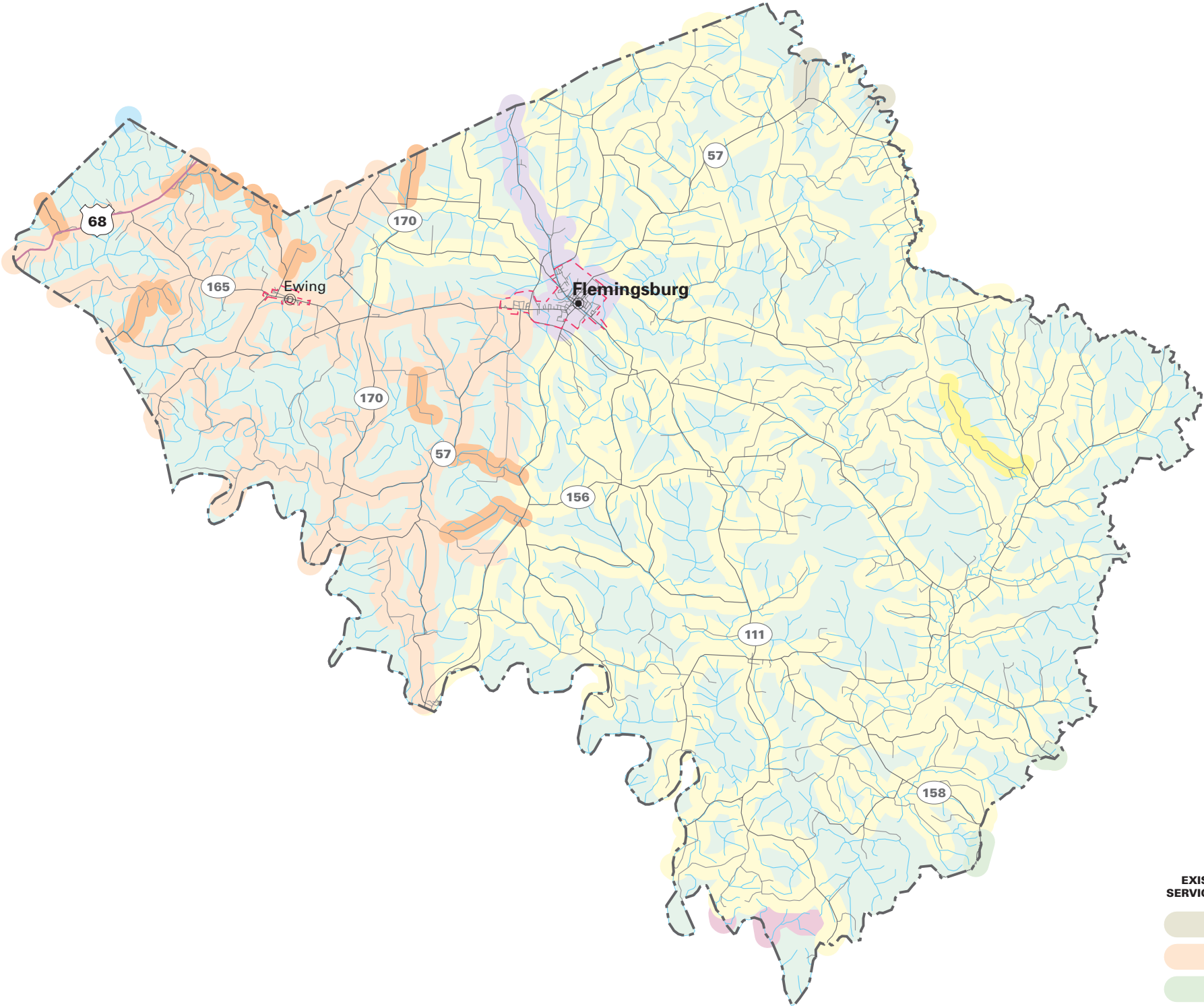
Bob Arnold, Chairman  
Lawrence Wetherby, Executive Director

Final GIS & Cartographic Operations By:  
Kent Anness & Kim Prough

Data Collection & GIS Input By:  
Kentucky Area Development Districts



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#### WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		WESTERN LEWIS RECTORVILLE WATER DISTRICT
		WESTERN FLEMING WATER DISTRICT
		ROWAN COUNTY WATER DISTRICT
		FLEMINGSBURG UTILITY SYSTEM
		FLEMING COUNTY WATER ASSOCIATION
		BUFFALO TRAIL WATER ASSOCIATION
		BATH COUNTY WATER DISTRICT



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### **FLEMING COUNTY WATER ASSOCIATION**

PWSID: ..... 0350133  
System Type: ..... COMMUNITY  
Owner Type: ..... WATER ASSOCIATION  
Surface Source:  
Purchase Source: ..... FLEMINGSBURG UTILITY SYSTEM  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 0.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 184,000.00  
Total Service Connections: ..... 2,669.00  
Number of Employees: ..... 7.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... 5.64  
O/M costs 1997: ..... 647,862.00  
O/M costs per Service Connection: ..... 228.04  
Net Revenue 1997: ..... 39,784.00  
Total Water Produced 1997 (gallons): ..... 0.00  
Water Sold 1997 (gallons): ..... 167,921,000.00  
Unaccounted-for Water 1997 (%): ..... 11.46

Fleming County Water Association has recently received Rural Development funding for their immediate project, consisting of approximately 22 miles of waterline. The Water Association with the completion of this project will have effectively served its boundaries. Twenty households have been identified as not feasible and a non-traditional system is required. The Water Association purchases all of its water from other water systems. During periods of drought, the association is vulnerable to water shortages.

A feasibility study was conducted for the area to explore options for a new source supply. The study, conducted by Quest Engineers, recommended the formation of the Greater Fleming County Regional Water Commission (GFCRWC) and that a well field be constructed in northern Lewis County along the Ohio River. The GFCRWC currently has land under option and test wells have been constructed. The GFCRWC currently has applications for funding filed with various federal and state agencies to implement the project.

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### **FLEMINGSBURG UTILITY SYSTEM**

PWSID: ..... 0350134  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source: ..... RESERVOIR  
Purchase Source: ..... MAYSVILLE UTILITY COMMISSION  
Well Source:  
Sells Water to: ..... FLEMING COUNTY WATER ASSOCIATION  
Treatment Plant Capacity (MGD): ..... 0.72  
Percent Daily Average Production: ..... 63.00  
Total Tank Storage Capacity (gallons): ..... 150,000.00  
Total Service Connections: ..... 1,450.00  
Number of Employees: ..... 10.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class: ..... 3A  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

Flemingsburg Utilities serve Flemingsburg and currently provides water service to all households. The city utilizes two (2) reservoirs as a source supply in addition to a 12-inch supply line from Maysville Utilities.

### **WESTERN FLEMING WATER DISTRICT**

Western Fleming Water District has identified a short-term project of approximately 13.7 miles to serve 69 new customers. Approximately 40 households were identified as not feasible for a traditional delivery system. The District operates a treatment plant located on the Licking River. The plant has adequate capacity, but in times of drought the flow of the Licking River drops to a point where the district's plant has intake problems. The district's treatment plant also provides water to Buffalo Trail Water Association, located in Mason and Robertson Counties.

Western Fleming Water District has 975 service connections. The system has treatment capacity of 1,000,080 gallons per day and storage capacity of 1,542,000 gallons. The water source is Licking River. The charge for the first 5,000 gallons of water was \$21.50. The system produced 277,180,000 gallons, and sold 225,843,000 gallons for 1997. Overall system losses were 17% for the same period

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## **PRIVATE DOMESTIC SYSTEMS**

About 2,600 residents of Fleming County rely on private domestic water supplies: about 1,300 on wells and 1,300 on other sources.

Some wells located in the Licking River valley and the major creek valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of Rowan County, which encompasses 70% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

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